



Saskatchewan Cattle Marketing Report 1993

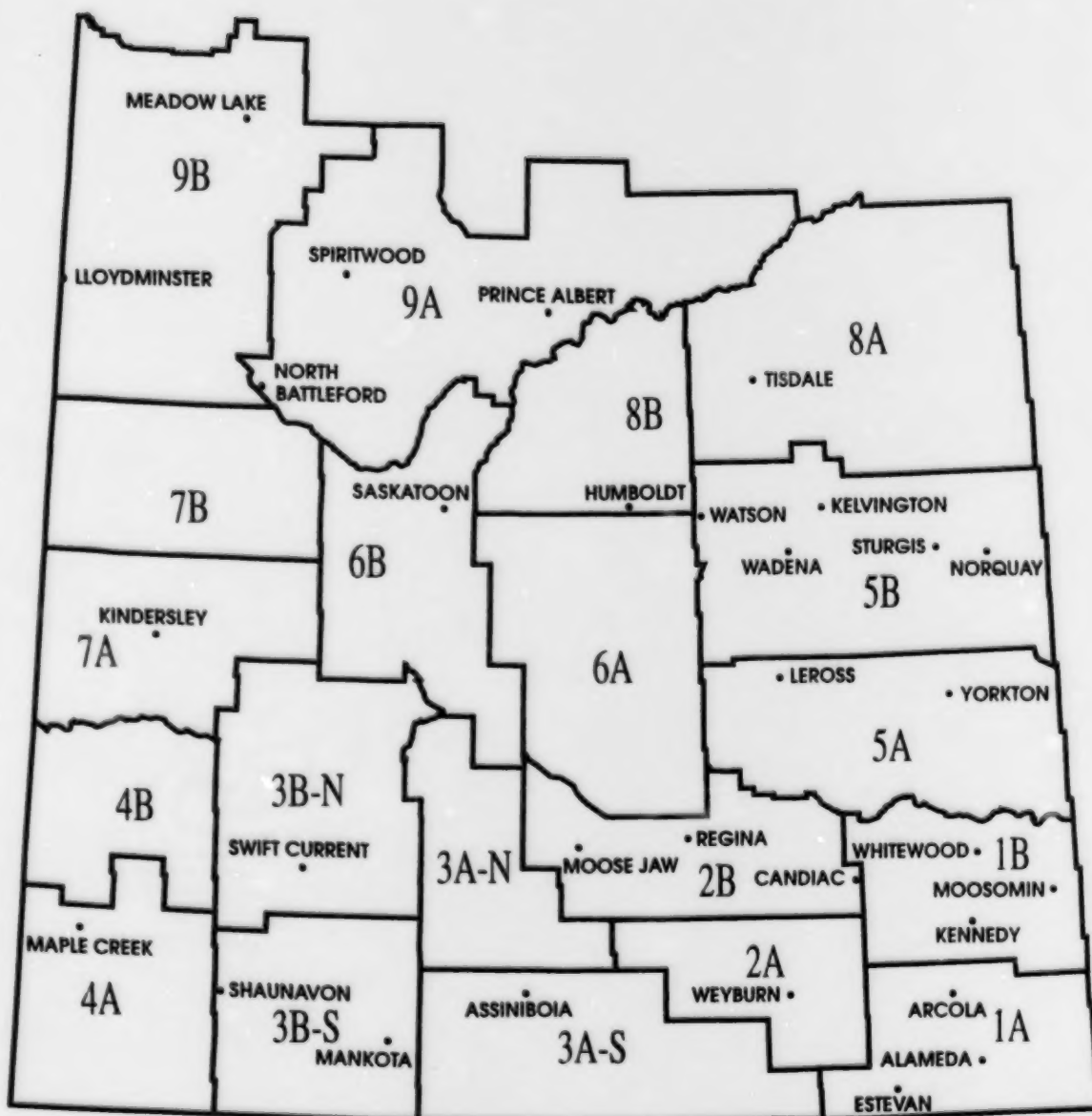


Table 1 Saskatchewan Cattle Marketings, 1992-93

	1993	1992	93/92
Slaughter Cattle			
steers	132 920	149 800	89
heifers	55 850	49 600	113
cows	116 780	122 400	95
bulls	31 210	33 480	93
calves	330	150	220
total	337 090	355 430	95
Feeder Cattle			
steers	512 820	437 000	117
over 800 lbs.	116 070	80 190	145
600 - 800 lbs.	200 450	172 280	116
under 600 lbs.	196 300	184 530	106
heifers	382 270	346 840	110
over 700 lbs.	114 770	84 980	135
500 - 700 lbs.	184 060	167 770	110
under 500 lbs.	83 440	94 090	89
cows	24 270	21 150	115
bulls	9 480	8 620	110
total	928 840	813 610	114
Total Cattle and Calves	1 265 930	1 169 040	108

Table 2 Origin of Cattle Marketed, Saskatchewan, 1992-93

Crop District	steers	heifers	cows	bulls	calves	1993	1992
1a	22 590	17 620	6 490	1 590	3 840	52 130	45 650
1b	29 120	23 070	9 130	1 780	6 050	69 150	64 210
2a	11 180	7 720	4 040	1 110	1 980	26 030	24 080
2b	26 590	19 100	6 170	1 940	4 150	57 950	58 200
3as	17 880	15 040	10 360	2 300	21 200	66 780	61 940
3an	10 920	8 840	4 560	1 040	7 260	32 620	32 810
3bs	19 390	15 390	5 750	1 160	6 830	48 520	41 140
3bn	26 470	23 070	8 440	2 150	4 790	64 920	58 830
4a	36 630	23 970	9 360	1 620	9 310	80 890	73 250
4b	18 050	11 930	4 550	720	3 670	38 920	36 320
5a	38 650	27 790	10 510	3 230	1 690	81 870	76 360
5b	29 960	22 270	9 340	2 000	930	64 500	58 830
6a	70 400	27 200	7 020	2 450	4 110	111 180	94 320
6b	38 760	24 020	14 190	2 420	6 990	86 380	78 890
7a	11 050	8 380	3 240	780	3 170	26 620	24 680
7b	20 840	13 290	7 960	1 210	13 590	56 890	51 560
8a	16 590	10 200	4 100	930	780	32 600	29 730
8b	17 560	8 500	3 250	810	840	30 960	28 500
9a	51 090	38 020	12 390	2 670	4 350	108 520	104 830
9b	46 580	32 590	14 520	2 970	22 610	119 270	114 150
Saskatchewan	560 300	378 010	155 370	34 880	128 140	1 256 700	1 158 280
Other Prov.	4 040	3 620	1 160	230	180	9 230	10 760
Total - 1993	564 340	381 630	156 530	35 110	128 320	1 265 930	
Total - 1992	561 750	351 750	138 630	33 690	83 220		1 169 040

Table 3 Destination of Saskatchewan Cattle Marketed, 1992-93

Destination	number of slaughter cattle		number of feeder cattle	
	1993	1992	1993	1992
Saskatchewan	124 580	179 050	370 360	319 090
Exports	212 510	176 380	558 480	494 520
Alberta	41 390	11 080	340 250	255 390
Manitoba	16 110	15 940	29 560	24 030
Ontario	11 470	18 260	68 790	74 590
Other Prov.	50	-	1 230	1 130
U.S.A.	143 490	131 100	118 650	139 380
Total	337 090	355 430	928 840	813 610

Table 4 Destination of Saskatchewan Cattle Marketed for Slaughter, 1992-93

Destination	total slaughter		bulls		cows	
	1993	1992	1993	1992	1993	1992
Saskatchewan	124 580	179 050	6 990	5 920	51 550	57 100
Exports	212 470	176 380	24 220	27 560	65 230	65 300
Alberta	41 390	11 080	300	260	16 000	2 380
Manitoba	16 110	15 940	1 910	1 680	7 560	6 640
Ontario	11 470	18 260	30	110	10	40
Other Prov.	50	-	-	-	50	-
U.S.A.	143 450	131 100	21 980	25 510	41 610	56 240
Total	337 050	355 430	31 210	33 480	116 780	122 400

Destination	steers		heifers		calves	
	1993	1992	1993	1992	1993	1992
Saskatchewan	44 620	84 460	21 190	31 460	230	110
Exports	88 300	65 340	34 660	18 140	60	40
Alberta	17 860	6 130	7 230	2 310	-	-
Manitoba	3 690	5 050	2 950	2 540	-	30
Ontario	9 710	16 140	1 660	1 970	60	-
Other Prov.	-	-	-	-	-	-
U.S.A.	57 040	38 020	22 820	11 320	-	10
Total	132 920	149 800	55 850	49 600	290	150

Table 5 Destination of Saskatchewan Feeder Cattle Marketings, 1992-93

Destination	total feeders		bulls		cows	
	1993	1992	1993	1992	1993	1992
Saskatchewan	370 360	319 090	7 030	6 490	18 420	16 180
Exports	558 480	494 520	2 450	2 130	5 850	4 970
Alberta	340 250	255 390	1 910	1 050	2 740	2 160
Manitoba	29 560	24 030	420	610	1 300	950
Ontario	68 790	74 590	60	50	40	60
Other Prov.	1 230	1 130	10	20	-	-
U.S.A.	118 650	139 380	50	400	1 770	1 800
Total	928 840	813 610	9 480	8 620	24 270	21 150

Destination	total steers		over 800 lbs.		600-800 lbs.		under 600 lbs.	
	1993	1992	1993	1992	1993	1992	1993	1992
Saskatchewan	183 990	160 390	19 100	17 760	71 530	58 100	93 360	84 530
Exports	328 830	276 610	96 970	62 430	128 920	114 180	102 940	100 000
Alberta	202 500	157 440	59 560	45 760	88 370	69 800	54 570	41 880
Manitoba	15 330	13 180	2 360	1 430	5 220	3 750	7 750	8 000
Ontario	48 470	52 910	3 960	3 370	16 760	21 530	27 750	28 010
Other Prov.	820	850	-	-	620	540	200	310
U.S.A.	61 710	52 230	31 090	11 870	17 950	18 560	12 670	21 800
Total	512 820	437 000	116 070	80 190	200 450	172 280	196 300	184 530

Destination	total heifers		over 700 lbs.		500-700 lbs.		under 500 lbs.	
	1993	1992	1993	1992	1993	1992	1993	1992
Saskatchewan	160 920	136 030	30 710	24 530	84 450	67 880	45 760	43 620
Exports	221 350	210 810	84 060	60 450	99 610	99 890	37 680	50 470
Alberta	133 100	94 740	53 750	34 010	61 310	45 800	18 040	14 930
Manitoba	12 510	9 290	3 360	2 460	5 350	3 520	3 800	3 310
Ontario	20 220	21 570	2 840	1 840	10 400	11 720	6 980	8 010
Other Prov.	400	260	30	50	40	190	330	20
U.S.A.	55 120	84 950	24 080	22 090	22 510	38 660	8 530	24 200
Total	382 270	346 840	114 770	84 980	184 060	167 770	83 440	94 090

Table 6 Saskatchewan Cattle Marketed for Slaughter, Monthly, 1992-93

	total slaughter		cows		bulls	
	1993	1992	1993	1992	1993	1992
January	28 430	32 900	12 650	11 430	2 600	2 500
February	22 990	28 690	9 800	9 990	2 560	2 400
March	22 110	27 270	9 030	8 990	2 290	2 860
April	30 230	25 730	9 980	7 520	2 640	2 110
May	30 700	30 990	7 950	7 060	2 640	2 240
June	36 570	32 010	11 020	8 580	3 110	2 690
July	28 220	29 210	6 520	6 580	3 300	2 810
August	31 620	30 120	8 680	9 270	3 010	4 130
September	32 250	31 590	10 510	11 050	2 850	3 720
October	23 860	29 160	8 120	13 900	2 220	3 030
November	27 080	30 610	12 660	15 670	2 350	2 890
December	23 030	27 150	9 860	12 360	1 640	2 100
Year	337 090	355 430	116 780	122 400	31 210	33 480

	steers		heifers		calves	
	1993	1992	1993	1992	1993	1992
January	8 240	12 240	4 940	6 720	-	10
February	6 180	10 850	4 430	5 450	20	-
March	6 470	11 180	4 270	4 230	50	10
April	13 430	12 520	4 170	3 550	10	30
May	14 600	16 640	5 450	5 050	60	-
June	16 840	15 570	5 590	5 160	10	10
July	14 550	14 890	3 840	4 920	10	10
August	14 800	13 410	5 090	3 300	40	10
September	13 270	13 540	5 620	3 270	-	10
October	9 130	9 450	4 340	2 760	50	20
November	7 790	9 760	4 240	2 260	40	30
December	7 620	9 750	3 870	2 930	40	10
Year	132 920	149 800	55 850	49 600	330	150

Table 7a Saskatchewan Feeder Cattle Marketings, Monthly, 1992-93

	total feeders		cows		bulls	
	1993	1992	1993	1992	1993	1992
January	59 680	39 270	1 490	1 010	410	340
February	77 480	66 360	1 470	680	450	340
March	83 980	81 130	1 300	790	630	770
April	81 260	75 810	1 660	1 250	850	680
May	37 680	33 090	1 380	1 560	810	580
June	35 610	25 620	1 280	1 340	760	910
July	15 990	16 580	550	620	630	800
August	42 320	43 400	1 320	850	870	860
September	94 050	82 760	1 440	1 380	820	780
October	189 500	183 930	2 580	2 900	990	1 000
November	164 860	120 620	6 090	5 600	1 370	940
December	46 430	45 040	3 710	3 170	890	620
Year	928 840	813 610	24 270	21 150	9 480	8 620

Table 7b Saskatchewan Feeder Cattle Exports, Monthly, 1992-93

	total feeders		cows		bulls	
	1993	1992	1993	1992	1993	1992
January	44 170	26 260	350	170	70	50
February	54 710	48 020	570	230	50	50
March	55 170	50 850	220	60	110	90
April	50 390	43 260	240	200	220	190
May	24 480	15 030	340	460	270	130
June	24 410	13 440	320	320	240	230
July	11 450	10 950	60	80	220	220
August	31 030	34 630	310	300	270	270
September	63 320	59 510	440	590	370	300
October	103 950	104 280	1 000	910	310	230
November	79 850	65 650	1 520	1 160	170	230
December	15 550	22 640	480	490	150	140
Year	558 480	494 520	5 850	4 970	2 450	2 130

Table 8a Saskatchewan Feeder Steer Marketings, Monthly, 1992-93

	total steers		over 800 lbs.		600-800 lbs.		under 600 lbs.	
	1993	1992	1993	1992	1993	1992	1993	1992
January	34 700	22 150	8 740	3 190	19 720	13 290	6 240	5 670
February	41 680	34 800	11 630	5 220	22 750	21 810	7 300	7 770
March	42 890	42 560	10 780	9 000	23 900	24 940	8 210	8 620
April	36 820	37 650	11 760	9 300	18 160	19 540	6 900	8 810
May	18 850	16 790	10 010	5 160	6 100	8 250	2 740	3 380
June	19 090	13 060	13 030	6 540	4 180	4 620	1 880	1 900
July	8 650	9 200	5 860	4 560	1 570	2 930	1 220	1 710
August	24 600	21 900	13 220	11 530	5 370	6 730	6 010	3 640
September	57 960	46 110	17 830	13 930	14 010	11 890	26 120	20 290
October	113 350	106 120	5 410	5 750	41 050	29 350	66 890	71 020
November	92 160	64 970	4 730	3 390	33 430	18 710	54 000	42 870
December	22 070	21 690	3 070	2 620	10 210	10 220	8 790	8 850
Year	512 820	437 000	116 070	80 190	200 450	172 280	196 300	184 530

	total steers		over 800 lbs.		600-800 lbs.		under 600 lbs.	
	1993	1992	1993	1992	1993	1992	1993	1992
January	27 740	15 630	7 830	2 230	16 280	10 200	3 630	3 200
February	32 010	25 430	10 030	3 950	17 590	16 790	4 390	4 690
March	31 190	29 350	9 510	7 280	16 580	17 380	5 100	4 690
April	25 600	22 840	10 210	7 130	12 060	11 660	3 330	4 050
May	13 600	8 620	8 650	3 670	4 030	3 570	920	1 380
June	14 430	7 310	11 460	4 670	2 420	2 120	550	520
July	6 620	6 610	5 330	3 890	970	1 830	320	890
August	18 880	17 240	11 770	10 130	4 060	5 300	3 050	1 810
September	39 640	32 090	15 130	11 110	9 300	8 590	15 210	12 390
October	64 690	61 700	3 150	3 940	24 310	18 380	37 230	39 380
November	46 810	37 300	2 190	2 320	17 600	11 940	27 020	23 040
December	7 620	12 490	1 710	2 110	3 720	6 420	2 190	3 960
Year	328 830	276 610	96 970	62 430	128 920	114 180	102 940	100 000

Table 9a Saskatchewan Feeder Heifer Marketings, Monthly, 1992-93

	total heifers		over 700 lbs.		500-700 lbs.		under 500 lbs.	
	1993	1992	1993	1992	1993	1992	1993	1992
January	23 080	15 770	6 370	4 330	14 400	9 200	2 310	2 240
February	33 880	30 540	10 490	6 270	19 670	20 210	3 720	4 060
March	39 160	37 010	13 120	8 530	21 420	24 010	4 620	4 470
April	41 930	36 230	17 220	10 760	21 060	21 290	3 650	4 180
May	16 640	14 160	9 220	5 290	6 080	7 200	1 340	1 670
June	14 480	10 310	10 350	5 270	3 270	4 160	860	880
July	6 160	5 960	4 570	3 450	1 180	1 730	410	780
August	15 530	19 790	10 410	11 020	3 040	5 850	2 080	2 920
September	33 830	34 490	11 110	11 640	10 990	10 150	11 730	12 700
October	72 580	73 910	8 330	7 630	37 250	32 310	27 000	33 970
November	65 240	49 110	7 490	5 590	36 470	22 480	21 280	21 040
December	19 760	19 560	6 090	5 200	9 230	9 180	4 440	5 180
Year	382 270	346 840	114 770	84 980	184 060	167 770	83 440	94 090

Table 9b Saskatchewan Feeder Heifer Exports, Monthly, 1992-93

	total heifers		over 700 lbs.		500-700 lbs.		under 500 lbs.	
	1993	1992	1993	1992	1993	1992	1993	1992
January	16 010	10 410	5 070	3 160	10 100	6 160	840	1 090
February	22 080	22 310	8 480	4 510	11 830	15 300	1 770	2 500
March	23 650	21 350	9 290	5 650	11 810	13 700	2 550	2 000
April	24 330	20 030	10 800	6 170	11 690	11 680	1 840	2 180
May	10 270	5 820	6 520	2 400	3 320	2 720	430	700
June	9 420	5 580	7 490	3 480	1 630	1 800	300	300
July	4 550	4 040	3 960	2 660	460	990	130	390
August	11 570	16 820	8 920	9 920	1 950	4 840	700	2 060
September	22 870	26 530	9 230	9 870	7 210	7 740	6 430	8 920
October	37 950	41 440	5 900	5 860	19 440	18 430	12 610	17 150
November	31 350	26 960	4 940	3 560	17 580	12 410	8 830	10 990
December	7 300	9 520	3 460	3 210	2 590	4 120	1 250	2 190
Year	221 350	210 810	84 060	60 450	99 610	99 890	37 680	50 470

Table 10 Saskatchewan Cattle Marketings, 1976-93

	slaughter		feeders	
	total	steers & heifers	total	exports
1993	337 090	188 770	928 840	558 480
1992	355 430	199 400	813 610	494 520
1991	301 250	178 350	725 330	403 290
1990	330 710	202 740	764 450	436 810
1989	381 680	247 030	718 520	383 380
1988	407 890	296 180	720 560	370 750
1987	352 920	248 580	730 710	326 010
1986	n.a.	n.a.	634 930	316 000
1985	n.a.	n.a.	658 430	423 560
1984	n.a.	n.a.	701 290	466 040
1983	n.a.	n.a.	665 270	420 080
1982	n.a.	n.a.	716 350	502 640
1981	n.a.	n.a.	706 160	486 280
1980	n.a.	n.a.	882 770	643 910
1979	n.a.	n.a.	801 930	536 810
1978	n.a.	n.a.	938 920	662 110
1977	n.a.	n.a.	943 110	658 920
1976	n.a.	n.a.	752 910	548 110

Table 11 Monthly Average Saskatchewan Railgrade, A1 Steer Price, 1988-1993

	1993	1992	1991	1990	1989	1988
	\$/cwt.					
January	161.57	127.50	149.50	149.25	146.25	139.98
February	160.96	136.75	147.50	151.13	150.78	146.24
March	164.38	141.00	151.00	149.00	153.19	147.71
April	163.16	141.00	149.00	145.25	145.79	150.88
May	163.57	140.00	142.00	140.75	139.98	146.36
June	154.80	135.90	137.00	140.00	133.09	137.85
July	150.50	136.13	135.00	141.50	137.26	131.53
August	154.71	138.78	131.25	143.00	139.60	133.72
September	156.13	140.55	129.00	144.50	138.67	137.85
October	155.75	146.38	128.00	149.75	146.20	142.89
November	156.08	146.72	126.25	152.50	148.00	141.37
December	154.75	155.00	123.50	151.75	148.00	136.37
Year	158.03	140.48	137.42	146.53	143.90	141.06

**Table 12a Monthly Average Price for A1,2 Steers (1000 lbs. & over)
at Auction Markets/Stockyards, 1993**

	Saskatchewan*	Edmonton	Winnipeg	Toronto
	\$/cwt.			
January	-	-	91.39	98.92
February	-	-	90.93	96.98
March	-	-	94.00	97.89
April	-	-	94.33	99.34
May	92.00	-	94.40	103.48
June	86.38	85.60	90.48	99.07
July	86.25	86.60	86.48	95.41
August	89.50	90.25	88.42	95.83
September	88.00	89.00	88.67	95.22
October	86.25	-	86.72	90.24
November	-	-	86.52	93.08
December	-	-	86.32	95.32

**Table 12b Yearly Average Price for A1,2 Steers (1000 lbs. & over)
at Auction Markets/Stockyards, 1976-93**

	Saskatchewan*	Edmonton	Winnipeg	Toronto
	\$/cwt.			
1993	87.45	88.27	90.34	97.23
1992	78.71	81.05	81.35	87.38
1991	78.32	78.71	77.66	84.56
1990	83.27	81.15	82.33	88.89
1989	80.33	79.53	80.28	88.82
1988	78.46	77.12	80.76	87.35
1987	81.35	80.82	82.80	88.89
1986	74.10	72.47	76.62	82.66
1985	74.32	72.79	76.34	81.63
1984	76.32	74.96	77.67	85.30
1983	70.50	71.43	72.50	78.98
1982	73.27	71.59	75.17	80.54
1981	74.83	72.99	76.37	80.00
1980	74.28	74.54	76.06	80.74
1979	75.50	75.42	76.11	80.23
1978	56.54	56.42	58.01	62.07
1977	39.83	38.18	39.89	44.50
1976	38.09	37.25	39.25	41.89

*1983-87: Northern Saskatchewan

1976-82: Saskatoon

**Table 13a Monthly Average Price for 600-700 lb. Graded Feeder Steers
at Auction Markets/Stockyards, 1993**

	Saskatchewan*	Edmonton	Winnipeg	Toronto
	\$/cwt.			
January	113.50	111.48	108.77	104.64
February	114.00	109.33	111.26	104.62
March	115.45	113.41	112.75	107.47
April	117.50	117.23	115.29	113.16
May	119.25	121.03	117.01	118.36
June	119.20	118.04	116.67	109.67
July	118.00	123.01	116.06	106.75
August	125.00	127.29	118.62	110.84
September	131.20	131.14	123.57	113.04
October	128.25	126.70	122.46	115.08
November	124.50	120.90	119.22	117.73
December	125.00	119.19	117.69	114.21

**Table 13b Yearly Average Price for 600-700 lb. Graded Feeder Steers
at Auction Markets/Stockyards, 1976-93**

	Saskatchewan*	Edmonton	Winnipeg	Toronto
	\$/cwt.			
1993	120.94	121.18	116.83	113.10
1992	102.77	102.25	101.24	95.39
1991	107.13	103.11	103.08	96.01
1990	103.52	97.69	100.88	95.11
1989	102.48	97.18	97.47	93.74
1988	108.31	104.52	101.88	99.27
1987	109.51	105.94	99.30	104.80
1986	91.15	87.97	84.29	89.85
1985	83.20	81.33	79.87	84.91
1984	81.75	80.40	79.17	84.27
1983	79.24	78.44	76.65	82.08
1982	74.78	73.97	72.68	77.24
1981	77.32	76.41	74.50	74.64
1980	83.75	82.89	81.61	83.18
1979	99.05	100.29	93.02	95.36
1978	63.31	65.27	60.72	66.86
1977	38.09	38.92	38.16	43.31
1976	37.58	36.27	35.56	41.70

*1983-87: Northern Saskatchewan

*1976-82: Saskatoon

Table 14 Saskatchewan Cattle Prices, 1992-93

	1993	1992
	\$/cwt.	
Slaughter Cattle		
Steers		
A1,2 >1000 lbs.	87.45	78.71
A1,2 <1000 lbs.	-	-
A3,4	-	-
B & C	-	-
Heifers		
A1,2 >850 lbs.	87.23	77.45
A1,2 <850 lbs.	-	-
A3,4	-	-
B & C	-	-
Cows		
D1,2	61.85	55.64
D3,5	57.29	52.36
D4	-	-
Bulls	78.31	71.77

	1993	1992
	\$/cwt.	
Feeder Cattle		
Graded Steers		
> 900 lbs.	102.17	87.65
800-900 lbs.	108.54	92.44
700-800 lbs.	114.28	96.99
600-700 lbs.	120.94	102.77
Off Type Steers >600 lbs.	96.75	84.46
Graded Heifers		
> 800 lbs.	102.09	87.57
700-800 lbs.	107.83	91.73
600-700 lbs.	113.42	96.11
500-600 lbs.	120.00	100.66
Off Type Heifers >500 lbs.	97.34	83.96
Cows	69.15	61.82
Feeder Calves		
Graded Steers		
500-600 lbs.	128.32	109.14
400-500 lbs.	137.76	115.43
< 400 lbs.	149.33	125.06
Off Type Steers <600 lbs.	113.94	99.85
Graded Heifers		
400-500 lbs.	126.00	104.81
300-400 lbs.	138.52	113.18
< 300 lbs.	-	-
Off Type Heifers <500 lbs.	109.51	93.51

Table 15 Cattle and Calves on Farms, 1988-94

July 1	1993	1992	1991	1990	1989	1988
	thousand head					
Canada						
total cattle	13 410.8	13 197.1	12 842.9	12 560.2	12 456.9	12 153.2
Saskatchewan						
total cattle	2 515.0	2 442.0	2 279.0	2 173.0	2 146.0	2 127.0
bulls	58.0	55.0	52.0	52.0	50.0	50.0
cows	1 039.0	1 000.0	942.0	918.0	897.0	876.0
beef	995.0	955.0	897.0	870.0	847.0	825.0
milk	44.0	45.0	45.0	48.0	50.0	51.0
heifers	308.0	305.0	269.0	272.0	272.0	285.0
beef	292.0	288.0	252.0	254.0	254.0	265.0
replacement	207.0	199.0	174.0	174.0	168.0	168.0
slaughter	85.0	89.0	78.0	80.0	86.0	97.0
dairy	16.0	17.0	17.0	18.0	18.0	20.0
steers	180.0	198.0	176.0	189.0	193.0	212.0
calves	930.0	884.0	840.0	742.0	734.0	704.0

January 1	1994	1993	1992	1991	1990	1989
	thousand head					
Canada						
total cattle	12 305.6	11 786.2	11 712.6	11 288.8	11 220.4	10 984.4
Saskatchewan						
total cattle	2 135.0	2 039.0	1 976.0	1 823.0	1 801.0	1 749.0
bulls	45.0	41.0	41.0	37.0	38.0	38.0
cows	976.0	928.0	906.0	887.0	836.0	816.0
beef	932.0	885.0	862.0	843.0	786.0	766.0
milk	44.0	43.0	44.0	44.0	50.0	50.0
heifers	208.0	192.0	181.0	168.0	176.0	190.0
beef	193.0	178.0	166.0	154.0	159.0	173.0
replacement	154.0	140.0	132.0	124.0	126.0	125.0
slaughter	39.0	38.0	34.0	30.0	33.0	48.0
dairy	15.0	14.0	15.0	14.0	17.0	17.0
steers	86.0	91.0	81.0	68.0	87.0	93.0
calves	820.0	787.0	767.0	663.0	664.0	612.0